

# MINI SAFA

## Automatic Fuel Conditioning System for Single and Large Fuel Storage Tanks



MiniSAFA with optional water drain system.



For larger capacity installations and fuel parks the SAFA filtering system guarantees the prevention.

For lower flow rate generators MiniSAFA and MicroSAFA are recommended.

Filtration stages:

- 1) 0,1 mm particle filter
- 2) Water decanter
- 3) Fuel conditioner for microbial growth prevention
- 4) Fuel circulation pump (preventing degradation)



TECHNICAL CHARACTERISTICS	
Dimensions	500x500x650 mm
Power supply	230 /110 Vac
Consumption	4 A / 8A Max.
Maximum Flow	50 l/min
Nominal Flow	40 l/min
Product codes	21110000902305: 230 V 50 Hz model
	21110000901105: 110 V 60 Hz model
	21110000902316: 230/50 Hz model, with automatic water drain pump
	21110000901106: 110/60 Hz model, with automatic water drain pump
Recommended for tanks up to 50.000 Lts accumulation.	

### Automatic water separation system in diesel tanks

The automatic filtering system for the separation of water in diesel tanks eliminates the water produced by condensation, oxygenates, homogenizes the fuel thanks to its recirculation and prevents the proliferation of bacteria, molds and yeast that are so damaging for the installation.

### Why is it important to install The MiniSAFA in my fuel tank?

Microbial contamination in fuel storage tanks is becoming a major problem.

Frequently, the first symptoms are detected in the installation filters when they become clogged, causing extra maintenance charges.

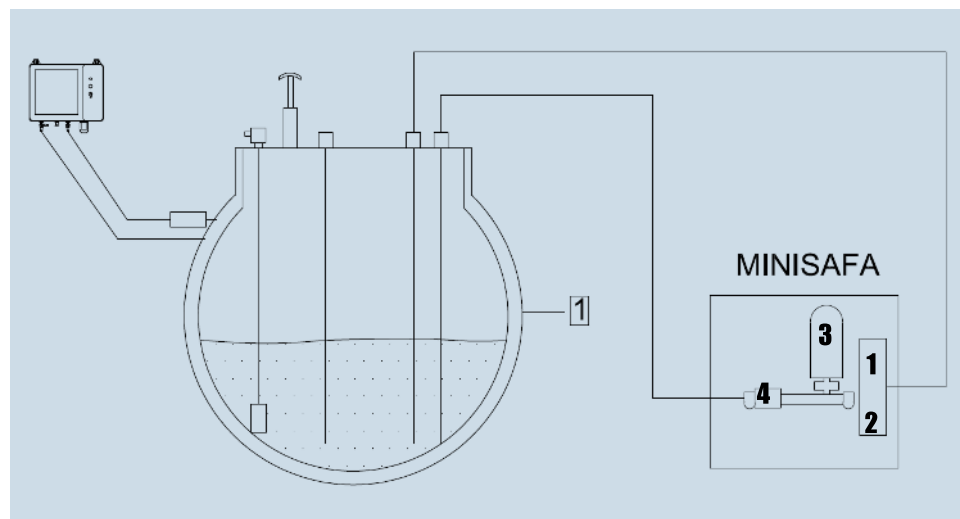
These bacteria proliferate by the accumulation of water in the tanks, quickly forming large colonies that clog the filters, causes irregular wear in pumps and affects to the engine cylinders.

In addition to a considerable increase in consumption by reducing performance.

The MiniSAFA filtering system is the ideal solution to all these problems in the medium-sized installations, especially in main tanks, due to the poor fuel rotation.

The system eliminates solid particles and water from the tanks by means of a decanting filter.

Additionally, it is fitted with a linear module that induces lethargy in the bacteria thus limiting their capacity to proliferate.



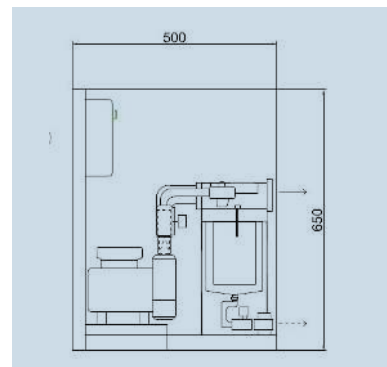
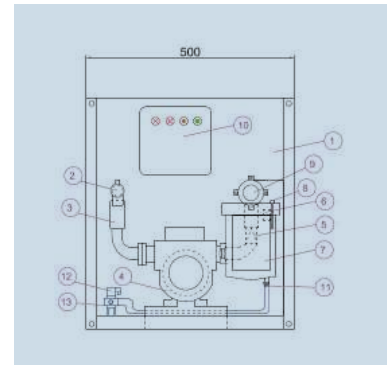
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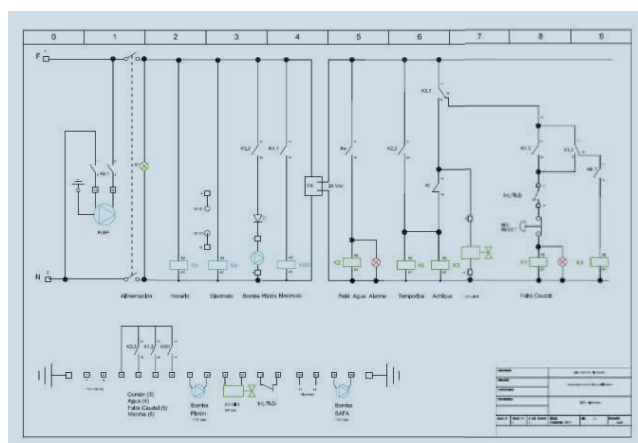
### How does MiniSAFA operate?

- It circulates and prevents fuel degradation inside daily-supply tanks.
- Fuel is passed through a fuel conditioner to prevent microbial growth.
- The fuel is **automatically distributed** for a predetermined number of periods programmed to ensure that the contents of the tank are recirculated at a rate of 1.5 times tank's capacity every 28 days.
- Mod. Without drainage: when water is detected in the decanting filter, the equipment stops, it triggers an alarm and a malfunction warning light comes on (water). To rearm, remove the water and act on the reset button if necessary. (It will not start until the corresponding cycle or acting manually)
- Mod. With drainage (\*): when water is detected in the decanting filter the equipment stops, it triggers an alarm and a malfunction warning light comes on (water), opens solenoid valve (12) and starts the drain pump during (13) 30 seconds in order to take out the existing water. (It will not start until the corresponding cycle or acting manually)
- **When water is detected in the decanting filter, the equipment stops, it triggers an alarm and a malfunction warning light comes on (water).**
- The system is powered by 230 Vac or other voltages on demand and comprises a solid filter, water decanter, fuel conditioner, flow detector, flow failure display, timer.
- The complete unit is weatherproof (IP-55 protection).

N	Description	Inpro Code
1	Structure with Tray	01110000022666
2	Particle filter 1" BSP (Aspiration)	01110005010005
3	Conditioner 1"	05040000130004
4	Motor Pump Iron 50 230 Vac	06060007046370
5	Non-return Valve 1"	01070000001000
6	Flow detector	01150000010001
7	Decanter filter (5 um)	01110009011210
8	Electrodes	01120000020600
9	Return 1" BSP	-
10	Control Box	-
	NFC Timer	02010000932290
	Contactora	02030000001110
11	Purge / Automatic Discharge (*)	-
12	Solenoid discharge (*)	-
13	Pump water - discharge piston	-



### Diagram and electrical connections



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